



**Resolute Forest Products – Catawba Mill**  
5300 Cureton Ferry Road  
Post Office Box 7  
Catawba, SC 29704-0007

FED EX NO. 7728 0184 7772

July 24, 2018

Technical Management Section  
South Carolina Department of Health and Environmental Control  
Bureau of Air Quality  
2600 Bull Street  
Columbia, SC 29201-1708

Re: 2018 Second Quarter CEMS Report Summaries  
Air Permit Number TV-2440-0005

Dear Technical Management Section:

Enclosed are the 2018 Second Quarter Continuous Emission Monitor Report Summaries and Title V monitoring report for Resolute Forest Products – Catawba Mill, Air Permit Number TV-2440-0005. Logs detailing each specific incident are also enclosed.

Based on information and belief formed after reasonable inquiry, I certify to the best of my knowledge, that the statements and information in this submission are true, accurate, and complete.

If there are any questions, please feel free to contact Mike Swanson at [mike.swanson@resolutefp.com](mailto:mike.swanson@resolutefp.com) or (803) 981-8010.

Sincerely,

David Clemmons  
Interim General Manager

Attachments: CEMS Logs

cc: Alex Latta, Region 3 Lancaster EQC Office  
EPA Region 4  
Environmental File 208.20

## 2018 Second Quarter CEM Report Summaries

### Title V Permit Unit ID 01 – Woodyard

Condition	Equip ID	Reporting Required?	Reporting Frequency	Comment
01.1	1300	N/A	N/A	Refers to FW.4
01.2	1300	N/A	N/A	Refers to FW.4
01.3	1300	No	N/A	Refers to FW.4
01.4	1300	N/A	N/A	Refers to FW.1

### Title V Permit ID 02 – Kraft Process – Kraft Pulp Mill

Condition	Equip ID	Reporting Required?	Reporting Frequency	Comment
02.1	5210, 5220, 5230, 5240, and 5250	No	N/A	N/A
02.2(A)	5210 & 5230	Yes	Semi-annual	See below.
02.2(B)	5210 & 5230	N/A	N/A	Refers to 08.7.
02.3	5210, 5220, 5230, 5240, and 5250	N/A	N/A	Refers to MACT conditions.
02.4	5210, 5220, 5230, 5240, and 5250	N/A	N/A	Refers to FW.1.

**Condition 02.2(A)**  
**Equip IDs 5210 and 5230**

**Reporting Frequency: Semi-Annually**

There were no parameters outside the ranges listed in Attachment H for the scrubber (Control Device ID 5260C) during the semi-annual period.

## 2018 Second Quarter CEM Report Summaries

### Title V Permit ID 03 – Kraft Process: Kraft Bleach Plant

Condition	Equip ID	Reporting Required?	Reporting Frequency	Comment
03.1	5300	Yes	Semi-annual	See note below.
03.2	5300	N/A	N/A	Refers to MACT conditions.
03.3	5300	N/A	N/A	Refers to FW.1

#### Condition 03.1 Equip ID 5300

**Reporting Frequency: Semi-Annually**

For the purposes of using this report as a cross reference when completing DHEC annual reporting form 3650, the following information is being included with this report pursuant to DHEC form 3650:

- The specific permit condition for which exceptions are being noted is 5.C.03.1.
- Exceptions descriptions are detailed on the enclosed logs along with dates and times.
- The basis for compliance determinations is continuous monitoring of specific scrubber parameters.
- Cause(s) and corrective action(s) are detailed on the enclosed logs.

There were no incidents during which a parameter was outside the maximum rate during the reporting period. See the enclosed log for details.

### Title V Permit ID 04 – Kraft Process: Chlorine Dioxide Generator

Condition	Equip ID	Reporting Required?	Reporting Frequency	Comment
04.1	1790	Yes	Semi-annual	See note below.
04.2	1790	No	N/A	N/A

#### Condition 04.1 Equip ID 1790

**Reporting Frequency: Semi-Annually**

There were no incidents in which a surrogate monitoring parameter was outside the range for the chlorine dioxide scrubber (Control Device ID 1790C) and one incident of monitor downtime during the semi-annual reporting period. See the enclosed log for details.

### Title V Permit ID 05 – TMP Process

Condition	Equip ID	Reporting Required?	Reporting Frequency	Comment
05.1	4400	No	N/A	N/A
05.2	4400	No	N/A	N/A

## 2018 Second Quarter CEM Report Summaries

### Title V Permit ID 06 – Paper Mill

Condition	Equip ID	Reporting Required?	Reporting Frequency	Comment
06.1(A)	2000, 2005, 4100, 4110, 4600, 4605, 9700, 9701A, 9701B, 9702, 9703, & 9704	N/A	N/A	Refers to FW.4.
06.1(B)	2000, 2005, 4100, 4110, 4600, 4605, 9700, 9701A, 9701B, 9702, 9703, & 9704	Yes	Semi-annual	See note below.
06.2(A)	2010, 4610, 4120, 4130, & 9900	No	N/A	N/A
06.2(B)	4120 & 4130	Yes	Semi-annual	See note below.
06.3(A)	2010	No	N/A	N/A
06.3(B)	4120 & 4130	Yes	Semi-annual	See note below.
06.3(C)	4610	Yes	Semi-annual	See note below.
06.3(D)	9900	Yes	Semi-annual	See note below.
06.4	4110	Yes	Semi-annual	See note below.
06.5(A)	2010	No	N/A	N/A
06.5(B)	4120 & 4130	Yes	Semi-annual	See note below.
06.5(C)	4610	Yes	Semi-annual	See note below.
06.5(D)	9900	Yes	Semi-annual	See note below.
06.6(A)	4610	Yes	Semi-annual	See note below.
06.6(B)	9900	Yes	Semi-annual	See note below.
06.7	4110	No	N/A	N/A
06.8	2010	No	N/A	N/A
06.9	2000, 2010, 2100, 4600, 4610, 4100, 4110, 4120, & 4130	N/A	N/A	Refers to FW.1
06.10	2005, 2010, 4605, & 4610	N/A	N/A	Refers to MACT conditions

#### Condition 06.1(B)

**Equip IDs 2000, 2005, 4100, 4110, 4600, 4605, 9700, 9701A, 9701B, 9702, 9703, & 9704**

**Reporting Frequency: Semi-Annually**

During the reporting period, no abnormal dust emissions were noted on daily inspection reports during the semi-annual period.

## 2018 Second Quarter CEM Report Summaries

### Condition 06.2(B) Equip IDs 4120 & 4130

Reporting Frequency: Semi-Annually

Kerosene was not utilized in the Hot Oil Heating System (4130); therefore, no visual inspections were performed during the reporting period. The Infrared Dryer (4120) was removed from service at the end of May 2013.

### Condition 06.3(B) Equip IDs 4120 & 4130

Reporting Frequency: Semi-Annually

The Infrared Dryer (4120) was removed from service at the end of May 2013. Monthly fuel usages of natural gas, kerosene, and propane for the Hot Oil Heating System (4130):

#### No. 3 Paper Machine Hot Oil Heater Fuel Usage (ID 4130)

Month	Natural Gas (MMBtu)	Propane (gallons)	Kerosene (gallons)
December-16	4,330	0	0
January-17	4,022	0	0
February-17	4,227	0	0
March-17	3,926	0	0
April-17	3,387	0	0
May-17	3,343	0	0
June-17	2,653	0	0
July-17	4,309	0	0
August-17	4,204	0	0
September-17	3,987	0	0
October-17	4,452	0	0
November-17	4,250	0	0
December-17	4,088	0	0
January-18	4,014	0	0
February-18	4,050	0	0
March-18	4,629	0	0
April-18	4,039	0	0
May-18	3,466	0	0
June-18	4,269	0	0

## 2018 Second Quarter CEM Report Summaries

**Condition 06.3(C)**  
**Equip ID 4610**

**Reporting Frequency: Semi-Annually**

Monthly fuel usages of kerosene and propane for the No. 2 Coater Dryer (4610) (idled in June 2017) are shown below:

	Kerosene (gallons)	12-Month Sum	Propane (gallons)	12-Month Sum
December-16	0	0	0	0
January-17	0	0	0	0
February-17	0	0	0	0
March-17	0	0	0	0
April-17	0	0	0	0
May-17	0	0	0	0
June-17	0	0	0	0
July-17	0	0	0	0
August-17	0	0	0	0
September-17	0	0	0	0
October-17	0	0	0	0
November-17	0	0	0	0
December-17	0	0	0	0
January-18	0	0	0	0
February-18	0	0	0	0
March-18	0	0	0	0
April-18	0	0	0	0
May-18	0	0	0	0
June-18	0	0	0	0

**Condition 06.3(D)**  
**Equip ID 9900**

**Reporting Frequency: Semi-Annually**

Monthly fuel usages of natural gas and propane for the Paper Machine Make-Up Air Units (4610) are shown below:

	Natural Gas (scf)	12-Month Rolling Sum	Propane (gallons)	12-Month Rolling Sum
December-16	9,418,206	41,391,266	0	0
January-17	5,667,088	36,816,695	0	0
February-17	3,658,726	32,147,972	0	0
March-17	4,431,293	33,013,166	0	0
April-17	3,298,082	34,691,736	0	0
May-17	4,110,881	38,802,561	0	0
June-17	1,482,123	40,284,461	0	0
July-17	1	40,283,250	0	0
August-17	120	40,283,327	0	0
September-17	106	40,283,433	0	0
October-17	72	36,673,848	0	0
November-17	12,459,724	44,526,424	0	0
December-17	13,945,998	49,054,216	0	0
January-18	14,363,759	57,750,887	0	0
February-18	14,411,657	68,503,817	0	0
March-18	15,982,631	80,055,154	0	0
April-18	14,511,762	91,268,834	0	0
May-18	40,387	87,198,341	0	0
June-18	507,750	86,223,968	0	0

## 2018 Second Quarter CEM Report Summaries

### Condition 06.4 Equip ID 4110

Reporting Frequency: Semi-Annually

Monthly fuel usages of natural gas, kerosene, and propane for the Air Flootation Dryer (4110) are shown below:

Month	Natural Gas MMBtu	Propane (gallons)	Kerosene (gallons)	PM / MMBtu
December-16	7,632	0	0	0.0076
January-17	7,088	0	0	0.0076
February-17	7,449	0	0	0.0076
March-17	6,920	0	0	0.0076
April-17	5,970	0	0	0.0076
May-17	5,891	0	0	0.0076
June-17	4,677	0	0	0.0076
July-17	7,594	0	0	0.0076
August-17	7,410	0	0	0.0076
September-17	7,028	0	0	0.0076
October-17	7,846	0	0	0.0076
November-17	7,490	0	0	0.0076
December-17	7,205	0	0	0.0076
January-18	7,074	0	0	0.0076
February-18	7,138	0	0	0.0076
March-18	8,159	0	0	0.0076
April-18	7,118	0	0	0.0076
May-18	6,108	0	0	0.0076
June-18	7,523	0	0	0.0076

The Air Flootation Dryer demonstrated compliance with the BACT limit of 0.0164 lb PM per million BTU.

### Condition 06.5(B) Equip IDs 4120 & 4130

Reporting Frequency: Semi-Annually

Monthly fuel usages of natural gas, kerosene, and propane for the Hot Oil Heating System (4130) are shown for condition 5C.06.3(B) above. The Infrared Dryer (4120) was removed from service at the end of May 2013.

### Condition 06.5(C) Equip ID 4610

Reporting Frequency: Semi-Annually

Monthly fuel usages of natural gas, kerosene, and propane for the No. 2 Coater Dryer (4610) are shown for condition 5C.06.3(C) above.

## 2018 Second Quarter CEM Report Summaries

### Condition 06.5(D) Equip ID 9900

**Reporting Frequency: Semi-Annually**

Monthly fuel usages of natural gas and propane for the Paper Machine Make Up Air Units (4610) are shown for condition 5C.06.3(D) above.

### Condition 06.6(A) Equip ID 4610

**Reporting Frequency: Semi-Annually**

Monthly fuel usages of natural gas, kerosene, and propane for the No. 2 Coater Dryer (4610) are shown for condition 5C.06.3(C) above.

### Condition 06.6(B) Equip ID 9900

**Reporting Frequency: Semi-Annually**

Monthly fuel usages of natural gas and propane for the Paper Machine Make Up Air Units (4610) are shown for condition 5C.06.3(D) above.

## Title V Permit ID 07 – Chemical Recovery

Condition	Equip ID	Reporting Required?	Reporting Frequency	Comment
07.1(A)	2400, 2402, 2500, 5100	No	N/A	N/A
07.1(B)	2515, 2520, 5115, 5120, 2700, 2701, 2702, & 2703	N/A	N/A	Refers to FW.4
07.1(C)	2700 & 2701 (2725C)	No	N/A	N/A
07.2(A)	2505 & 2723	Yes	Semi-annual	See note below.
07.2(B)	2510 & 5110 (2511C)	Yes	Semi-annual	See note below.
07.3	5105	Yes	Semi-annual	See note below.
07.4(A)	2505	N/A	N/A	Refers to MACT conditions
07.4(B1)	2505	N/A	N/A	Refers to MACT conditions
07.4(B2)	2505	No	N/A	N/A
07.5(A)	2510	N/A	N/A	Refers to MACT conditions
07.5(B1)	2510	N/A	N/A	Refers to MACT conditions
07.5(B2)	2510	No	N/A	N/A
07.6(A)	5105	N/A	N/A	Refers to MACT conditions
07.6(B1)	5105	N/A	N/A	Refers to MACT conditions
07.6(B2)	5105	No	N/A	N/A
07.6(C)	5105	N/A	N/A	Refers to FW.3.
07.7(A)	5110	N/A	N/A	Refers to MACT conditions.
07.7(B)	5110	N/A	N/A	Refers to MACT conditions.
07.8(A)	2723	N/A	N/A	Refers to MACT conditions.
07.8(B)	2723	N/A	N/A	Refers to MACT

## 2018 Second Quarter CEM Report Summaries

Condition	Equip ID	Reporting Required?	Reporting Frequency	Comment
				conditions.
07.8(C1)	2723	N/A	N/A	Refers to MACT conditions.
07.9(A)	2725C	No	N/A	N/A
07.9(B)	2726C & 2724C	No	N/A	N/A
07.9(C)	2724C, 2725C & 2726C	Yes	Semi-annual	See note below.
07.10(A)	5105 & 2723	No	N/A	N/A
07.10(B)	2723	No	N/A	N/A
07.10(C)	5105	No	N/A	N/A
07.10(D1)	2723	N/A	N/A	Refers to FW.2.
07.10(D2)	2723	N/A	N/A	Refers to FW.3.
07.10(D3)	5105	N/A	N/A	Refers to FW.3.
07.11(A)	5105 & 2723	No	N/A	N/A
07.11(B1)	2723	No	N/A	N/A
07.11(B2)	5105	No	N/A	N/A
07.11(C1)	2723	N/A	N/A	Refers to FW.2.
07.11(C2)	2723	N/A	N/A	Refers to FW.3.
07.11(C3)	5105	N/A	N/A	Refers to FW.3.
07.12(A)	5105 & 2723	No	N/A	N/A
07.12(B)	5105 & 2723	Yes	Semi-annual	See note below.
07.12(C1)	2723	N/A	N/A	Refers to FW.2.
07.12(C2)	2723	N/A	N/A	Refers to FW.3.
07.12(C3)	5105	N/A	N/A	Refers to FW.3.
07.13(A)	5260 (5260C)	N/A	N/A	Refers to 02.2.
07.13(B)	2400, 2500, 5100, & 5260	N/A	N/A	Refers to 08.7.
07.14	2505	Yes	Semi-annual	See note below.
07.15	5105	Yes	Semi-annual	See note below.
07.16(A)	2510	Yes	Semi-annual	See note below.
07.16(B)	5110	Yes	Semi-annual	See note below.
07.17(A)	2723	Yes	Semi-annual	See note below.
07.17(B1)	2723	N/A	N/A	Refers to FW.2.
07.17(B2)	2723	N/A	N/A	Refers to FW.3.
07.18(A1)	2723	N/A	N/A	See note below.
07.18(A2)	2723	N/A	N/A	Refers to FW.3.
07.19	2400, 2700, 2701, 2702, 2723, 5105, 5110, & 5115	N/A	N/A	Refers to FW.1.
07.20 & 0.7.21	2400, 2500, & 5100	N/A	N/A	Refer to MACT conditions.
07.22	2505, 2110, 2723, 5105, & 5110	N/A	N/A	Refer to MACT conditions.

### Condition 07.2(A) Equip IDs 2505 & 2723

**Reporting Frequency: Semi-Annually**

For the purposes of using this report as a cross reference when completing DHEC annual reporting Form 3650, the following information is being included with this report pursuant to DHEC Form 3650:

- The specific permit condition for which exceptions are being noted is 5C.07.2.

## 2018 Second Quarter CEM Report Summaries

- Exceptions descriptions are detailed on the enclosed logs along with dates and times.
- The basis for compliance determinations is operation and recording of continuous opacity data and monitor downtime.
- Cause and corrective actions are detailed on the enclosed logs.

There were no three-hour opacity episodes for the No. 2 Lime Kiln (ID 2723) during the semi-annual reporting period.

There were no three-hour opacity episodes for the No. 2 Recovery Furnace (ID 2505) during the semi-annual reporting period.

A summary is listed below for the continuous opacity monitoring downtime and excess emissions for the reporting period.

### Continuous Opacity Monitoring – No. 2 Recovery Furnace

	1st Quarter	2nd Quarter	Semi-Annual Period
Monitor Downtime	0.60 %	0.13 %	0.36 %
Excess Emission	0.10 %	0.00 %	0.05 %
Overall Compliance	99.30 %	99.87 %	99.59 %

### Continuous Opacity Monitoring – No. 2 Lime Kiln

	1st Quarter	2nd Quarter	Semi-Annual Period
Monitor Downtime	1.79 %	0.48 %	1.15 %
Excess Emission	0.06 %	0.06 %	0.06 %
Overall Compliance	98.15 %	99.46 %	98.79 %

#### Condition 07.2(B) Control Device ID 2511C

**Reporting Frequency: Semi-Annually**

For the purposes of using this report as a cross reference when completing DHEC annual reporting Form 3650, the following information is being included with this report pursuant to DHEC Form 3650:

- The specific permit condition for which exceptions are being noted is 5C.07.2.
- Exceptions descriptions are detailed on the enclosed logs along with dates and times.
- The basis for compliance determinations is operation and recording of continuous opacity data and monitor downtime.
- Cause and corrective actions are detailed on the enclosed logs.

During the reporting period, there were five instances of deviation from the scrubber monitoring ranges and one incident of monitor downtime. See the enclosed log for details.

#### Condition 07.3 Equip ID 5105

**Reporting Frequency: Semi-Annually**

For the purposes of using this report as a cross reference when completing DHEC annual reporting Form 3650, the following information is being included with this report pursuant to DHEC Form 3650:

- The specific permit condition for which exceptions are being noted is 5.C.07.3.
- Exceptions descriptions are detailed on the enclosed logs along with dates and times.
- The basis for compliance determinations is operation and recording of continuous opacity data and monitor downtime.
- Cause and corrective actions are detailed on the enclosed logs.

## 2018 Second Quarter CEM Report Summaries

There were no three-hour opacity episodes during the semi-annual reporting period.

A summary is listed below for the continuous opacity monitoring downtime and excess emissions for the reporting period.

### Continuous Opacity Monitoring – No. 3 Recovery Furnace

	1st Quarter	2nd Quarter	Semi-Annual Period
<b>Monitor Downtime</b>	0.03 %	0.31 %	0.17 %
<b>Excess Emission</b>	0.10 %	0.01 %	0.06 %
<b>Overall Compliance</b>	99.87 %	99.68%	99.78 %

#### Condition 07.9(C)

**Control Device IDs 2724C, 2725C, & 2726C**

**Reporting Frequency: Semi-Annually**

For the Slaker Scrubber (ID 2725C), there were no variations of a surrogate monitoring parameter during the semi-annual period.

No abnormal dust emissions were noted on the daily logs for the lime silos baghouses (IDs 2724C and 2726C) during the semi-annual reporting period.

## 2018 Second Quarter CEM Report Summaries

### Condition 07.12(B) Equip IDs 2723 & 5105

**Reporting Frequency: Semi-Annually**

The lime kiln modifications authorized by Construction Permit 2440-0005-DA have not occurred; therefore the requirements of this condition applicable to the No. 2 Lime Kiln (ID 2723) are not yet applicable.

The required data is recorded for the No. 3 Recovery Furnace (ID 5105). A summary is listed below for the continuous emissions monitoring downtime and excess emissions for the reporting period. See the enclosed log for details.

#### Continuous NOx Emissions Monitoring – No. 3 Recovery Furnace

	1st Quarter	2nd Quarter	Semi-Annual Period
<b>Monitor Downtime</b>	8.21 %	0.64 %	4.63 %
<b>Excess Emission</b>	0.00 %	0.00 %	0.00 %
<b>Overall Compliance</b>	91.79 %	99.36 %	95.37 %

### Condition 07.14 Equip ID 2505

**Reporting Frequency: Semi-Annually**

For the purposes of using this report as a cross reference when completing DHEC annual reporting Form 3650, the following information is being included with this report pursuant to DHEC Form 3650:

- The specific permit condition for which exceptions are being noted is 5.C.07.14.
- Exceptions descriptions are detailed on the enclosed logs along with dates and times.
- The basis for compliance determinations is operation and recording of continuous TRS data and monitor downtime.
- Cause and corrective actions are detailed on the enclosed logs.

A summary is listed below for the continuous emissions monitoring downtime and excess emissions for the reporting period. See the enclosed log for details.

#### Continuous Emissions Monitoring – No. 2 Recovery Furnace

	1st Quarter	2nd Quarter	Semi-Annual Period
<b>Monitor Downtime</b>	0.53 %	1.65 %	1.10 %
<b>Excess Emission</b>	0.00 %	0.00 %	0.00 %
<b>Overall Compliance</b>	99.47 %	98.35 %	98.90 %

## 2018 Second Quarter CEM Report Summaries

### Condition 07.15 Equip ID 5105

**Reporting Frequency: Semi-Annually**

For the purposes of using this report as a cross reference when completing DHEC annual reporting Form 3650, the following information is being included with this report pursuant to DHEC Form 3650:

- The specific permit condition for which exceptions are being noted is 5.C.07.15.
- Exceptions descriptions are detailed on the enclosed logs along with dates and times.
- The basis for compliance determinations is operation and recording of continuous TRS data and monitor downtime.
- Cause and corrective actions are detailed on the enclosed logs.

A summary is listed below for the continuous emissions monitoring downtime and excess emissions for the reporting period. See the enclosed log for details.

#### Continuous Emissions Monitoring – No. 3 Recovery Furnace

	1st Quarter	2nd Quarter	Semi-Annual Period
Monitor Downtime	8.21 %	0.79 %	4.70 %
Excess Emission	0.00 %	0.00 %	0.00 %
Overall Compliance	91.79 %	99.21 %	95.30 %

### Condition 07.16(A) Equip ID 2510

**Reporting Frequency: Semi-Annually**

For the purposes of using this report as a cross reference when completing DHEC annual reporting Form 3650, the following information is being included with this report pursuant to DHEC Form 3650:

- The specific permit condition for which exceptions are being noted is 5.C.07.16.
- Exceptions descriptions are detailed on the enclosed logs along with dates and times.
- The basis for compliance determinations is operation within surrogate monitoring parameters
- Cause and corrective actions are detailed on the enclosed logs.

During the reporting period, there were five instances of scrubber monitoring range deviation and one instance of monitor downtime.

### Condition 07.16(B) Equip ID 5110

**Reporting Frequency: Semi-Annually**

For the purposes of using this report as a cross reference when completing DHEC annual reporting Form 3650, the following information is being included with this report pursuant to DHEC Form 3650:

- The specific permit condition for which exceptions are being noted is 5.C.07.16.
- Exceptions descriptions are detailed on the enclosed logs along with dates and times.
- The basis for compliance determinations is operation within surrogate monitoring parameters.
- Cause and corrective actions are detailed on the enclosed logs.

During the reporting period, there were five instances of scrubber monitoring range deviation and one instance of monitor downtime.

## 2018 Second Quarter CEM Report Summaries

### Condition 07.17(A) Equip ID 2723

**Reporting Frequency: Semi-Annually**

For the purposes of using this report as a cross reference when completing DHEC annual reporting Form 3650, the following information is being included with this report pursuant to DHEC Form 3650:

- The specific permit condition for which exceptions are being noted is 5.C.07.17.
- Exceptions descriptions are detailed on the enclosed logs along with dates and times.
- The basis for compliance determinations is operation and recording of continuous TRS data and monitor downtime.
- Cause and corrective actions are detailed on the enclosed logs.

A summary is listed below for the continuous emissions monitoring downtime and excess emissions for the reporting period.

### Continuous Emissions Monitoring – No. 2 Lime Kiln

	1st Quarter	2nd Quarter	Semi-Annual Period
<b>Monitor Downtime</b>	1.95 %	0.62 %	1.30 %
<b>Excess Emission</b>	0.00 %	0.00 %	0.00 %
<b>Overall Compliance</b>	98.05 %	99.38 %	98.70 %

### Condition 07.18(A1) Equip ID 2723

The lime kiln modifications authorized by Construction Permit 2440-0005-DA have not occurred; therefore the requirements of this condition applicable to the No. 2 Lime Kiln (ID 2723) are not yet applicable. If/when the modifications occur, Facility-Wide condition FW.2 will apply.

## 2018 Second Quarter CEM Report Summaries

### Title V Permit ID 08 – Utilities

Condition	Equip ID	Reporting Required?	Reporting Frequency	Comment
08.1(A)	2550	N/A	N/A	Refers to FW.4.
08.1(B)	2605 & 3705	Yes	Quarterly	See note below.
08.2(A)	2550	N/A	N/A	Refers to FW.4.
08.2(B1)	2605 & 3705	Yes	Semi-annual	See note below.
08.2(B2)	2605 & 3705	No	N/A	N/A
08.2(C)	2605 & 3705	No	N/A	N/A
08.3(A)	2550	No	N/A	N/A
08.3(B)	2605 & 3705	No	N/A	N/A
08.4	2550	Yes	Quarterly	Submitted under separate cover.
08.5	2605 & 3705	Yes	Annual	Submitted under separate cover.
08.6	2605 & 3705	Yes	Semi-annual	See note below.
08.7	2605, 3705, 5260, 5270, & 9820	Yes	Semi-annual	See note below.
08.8	2605, 3705, 5260, 5270, & 9820	N/A	N/A	Refers to MACT conditions.

#### Condition 08.1(B) Equip IDs 2605 & 3705

#### Reporting Frequency: Quarterly

For the purposes of using this report as a cross reference when completing DHEC annual reporting form 3650, the following information is being included with this report pursuant to DHEC form 3650:

- The specific permit condition for which exceptions are being noted is 5.C.08.1.
- Exceptions descriptions are detailed on the enclosed logs along with dates and times.
- The basis for compliance determinations is operation and recording of continuous opacity data and monitor downtime.
- Cause and corrective actions are detailed on the enclosed logs.

A summary is listed below for the continuous opacity monitoring monitor downtime and excess emissions for the quarter. The precipitator bypass minutes are also listed below.

## 2018 Second Quarter CEM Report Summaries

### Continuous Opacity Monitoring

	<b>No. 1 Combination Boiler (ID 2605)</b>	<b>No. 2 Combination Boiler (ID 3705)</b>
<b>Monitor Downtime</b>	0.55 %	0.21 %
<b>Excess Emissions</b>	0.00 %	0.13 %
<b>Overall Compliance</b>	99.45 %	99.67 %
<b>Precipitator Bypass</b>	579 minutes	220 minutes

There were no periods of 3-hour opacity episodes during the quarter for either boiler.

There was no trip of the precipitator for No. 1 Combination Boiler or for No. 2 Combination Boiler within the quarter. Specific details are on the enclosed logs for each boiler.

#### **Condition 08.2(B1) Equip IDs 2605 & 3705**

**Reporting Frequency: Semi-Annually**

For the purposes of using this report as a cross reference when completing DHEC annual reporting form 3650, the following information is being included with this report pursuant to DHEC form 3650:

- The specific permit condition for which exceptions are being noted is 5.C.08.2.
- Exceptions descriptions are detailed on the enclosed logs along with dates and times.
- The basis for compliance determinations is operation and recording of continuous opacity data and monitor downtime.
- Cause and corrective actions are detailed on the enclosed logs.

A summary is listed below for the continuous opacity monitoring monitor downtime and excess emissions for the semi-annual reporting period. The precipitator bypass minutes are also listed below.

### Continuous Opacity Monitoring

	<b>No. 1 Combination Boiler (ID 2605)</b>	<b>No. 2 Combination Boiler (ID 3705)</b>
<b>Monitor Downtime</b>	0.51 %	1.41 %
<b>Excess Emissions</b>	0.02 %	0.12 %
<b>Overall Compliance</b>	99.47 %	98.47 %
<b>Precipitator Bypass</b>	891 minutes	2580 minutes

There were two trips of the precipitator for No. 1 Combination Boiler and five trips of the precipitator for No. 2 Combination Boiler within the semi-annual period. Specific details are on the enclosed logs for each boiler.

## 2018 Second Quarter CEM Report Summaries

### Condition 08.6 Equip IDs 2605 & 3705

**Reporting Frequency: Semi-Annually**

Tire-derived fuel (TDF) rate records for the semi-annual reporting period indicate that there were no rates above the 1.5-TPH limit.

### Condition 08.7 Equip IDs 2605, 3705, 5260, 5270, & 9820

**Reporting Frequency: Semi-Annually**

For the purposes of using this report as a cross reference when completing DHEC annual reporting Form 3650, the following information is being included with this report pursuant to DHEC Form 3650:

- The specific permit condition for which exceptions are being noted is 5.C.08.7.
- Exceptions descriptions are detailed on the enclosed logs along with dates and times.
- The basis for compliance determinations is positive operation of flame failure system and vent valve position.
- Cause and corrective actions are detailed on the enclosed logs.

During the semi-annual period, there were 26 vents of the low volume high concentration (LVHC) gas system, and 17 vents of the high volume low concentration (HVLC) gas system, due to a variety of causes, including very cold weather, startup, and valve malfunctions.

Note: Reports required under 40 CFR Part 60 Subpart S and General Provisions are being submitted separately to the Air Toxics Group. A copy is attached to this report for your review.

### Title V Permit ID 09 – Waste Treatment

Condition	Equip ID	Reporting Required?	Reporting Frequency	Comment
09.1(A)	9800 & 9801	No	N/A	N/A
09.1(B)	2902 through 2905	N/A	N/A	Refers to FW.4
09.2	2902 through 2905	No	N/A	N/A
09.3	2903	Yes	Semi-annual	See note below.
09.4	9801	N/A	N/A	Refers to 08.7
09.5	9801	N/A	N/A	Refers to MACT conditions

### Condition 09.3 Equip ID 2903

**Reporting Frequency: Semi-Annually**

Monthly records indicate the No. 1 Holding Basin Pump No. 2 did not operate more than 7000 hours per year.

## 2018 Second Quarter CEM Report Summaries

### Title V Permit ID 10 – Storage Tanks

Condition	Equip ID	Reporting Required?	Reporting Frequency	Comment
10.1	1100	No	N/A	N/A
10.2	1100	No	N/A	N/A

### Title V Permit ID 11 – Miscellaneous

Condition	Equip ID	Reporting Required?	Reporting Frequency	Comment
11.1	2900 & 1000	N/A	N/A	Refer to FW.4

### Facility Wide Conditions

Condition	Equip ID	Reporting Required?	Reporting Frequency	Comment
FW.1	All	No	N/A	N/A
FW.2	2723	Yes	Semi-annual	See note below.
FW.3	2723 & 5105	No	N/A	N/A
FW.4	1300, 2000, 2005, 4600, 4605, 4100, 4110, 9700, 9701A, 9701B, 9702, 9703, 9704, 2000, 4610, 4120, 4130, 9900, 2515, 2520, 5115, 5120, 2700, 2701, 2702, 2703, 2550, 2902, 2903, 2904, 2905, 2900, & 1100	Yes	Semi-annual	See note below.
FW.5	5210, 5240, 2400,	Yes	Semi-annual	See notes below.
FW.6	5100, 5260, 5260C,			
FW.7	2605, & 3705	No	N/A	N/A

## 2018 Second Quarter CEM Report Summaries

### Condition FW.2 Equip ID 2723

Reporting Frequency: Semi-Annually

Lime Kiln production rates are shown below:

Month	Kiln Production TPD	12- Month Rolling Avg
December-16	287	334
January-17	390	342
February-17	379	344
March-17	316	350
April-17	281	342
May-17	373	338
June-17	432	346
July-17	338	353
August-17	350	353
September-17	370	351
October-17	335	346
November-17	386	353
December-17	394	362
January-18	329	357
February-18	366	356
March-18	363	360
April-18	378	368
May-18	225	356
June-18	364	350

The 12-month rolling sum for lime kiln operation did not exceed the 465-ton per day limit during the reporting period.

### Condition FW.4 Equip IDs 1300, 2000, 2005, 4600, 4605, 4100, 4110, 9700, 9701A, 9701B, 9702, 9703, 9704, 2000, 4610, 4120, 4130, 9900, 2515, 2520, 5115, 5120, 2700, 2701, 2702, 2703, 2550, 2902, 2903, 2904, 2905, 2900, & 1100

Reporting Frequency: Semi-Annually

Visual emissions inspections were conducted on the sources listed below and the frequencies indicated. There were no incidences of abnormal VE results during the semi-annual reporting period.

### Condition FW.5(A1) Equip ID 5260C

Reporting Frequency: Semi-Annually

Records of liquid flow and liquid pH are maintained. There were no incidences of variances from established parameters during the reporting period.

## 2018 Second Quarter CEM Report Summaries

### **Condition FW.5(A2)**

**Equip IDs 5210, 5240, 2400, 5100,  
5260, 5260C, 2605, & 3705**

**Reporting Frequency: Semi-Annually**

Records of the combination boiler that is combusting NCG streams, the daily bark fired in each combination boiler, and the daily Kraft pulp production are maintained. The daily bark/Kraft pulp production ratio and the 30-day rolling average ratio are calculated. There were no incidences of variances from the minimum level during the reporting period.

### **Condition FW.5(C)**

**Equip IDs 5210, 5240, 2400, 5100,  
5260, 5260C, 2605, & 3705**

**Reporting Frequency: Semi-Annually**

Records of monthly and 12-month rolling sums of SO<sub>2</sub> emissions are maintained. There were no incidences of monthly 12-month sums above the annual SO<sub>2</sub> PSD BACT limit during the reporting period.

### **Condition FW.6**

**Equip IDs 5210, 5240, 2400, 5100,  
5260, 5260C, 2605, & 3705**

**Reporting Frequency: Semi-Annually**

Records of monthly and 12-month rolling average of unbleached pulp production are maintained. There were no incidences of rolling 12-month averages above the production limit during the reporting period.

## 2018 Second Quarter CEM Report Summaries

### Conditions for MACT Affected Sources

Condition	Equip ID	Reporting Required?	Reporting Frequency	Comment
MACT.1(C)	5210, 5220, 5230, 5240, 5250, 2400, 2500, 5100, 2605, & 3705	Yes	Semi-annual	See note below.
MACT.2(A)	5210, 5220, 2400, 2500, 5100, 9800, & 9801	Yes	Semi-annual	See note below.
MACT.3(A)	5300	Yes	Semi-annual	See note below.
MACT.4	5210, 5220, 5230, 5240, 5250, 5300, 2400, 2500, 5100, 2605, 3705, 9800, & 9801	No	N/A	N/A
MACT.5(A2)	2505, 2723, & 5105	Yes	Quarterly	See note below.
MACT.5(C)	2510 & 5110	Yes	Quarterly	See note below.
MACT.6	2010 & 4610	Yes	Semi-annual	See note below.
MACT.7	5210, 5220, 5230, 5240, 5250, 5300, 2400, 2500, 2505, 2510, 2723, 5100, 5105, 5110, 9800, & 9801	No	N/A	N/A
MACT.8, MACT.9, & MACT.10	5210, 5220, 5230, 5240, 5250, 5300, 2400, 2500, 2505, 2510, 2723, 5100, 5105, 5110, 2605, 3705, 9800, & 9801	No	N/A	N/A

## **2018 Second Quarter CEM Report Summaries**

### **Condition MACT.1(C)**

**Equip IDs 5210, 5220, 5230, 5240, 5250  
2400, 2500, 5100, 2605, & 3705**

**Reporting Frequency: Semi-Annually**

Excess emissions and CMS downtime were less than 1% and 5% respectively for all systems. See the attached MACT I report for details.

### **Condition MACT.2(A)**

**Equip IDs 5210, 5220, 2400, 2500,  
5100, 9800, & 9801**

**Reporting Frequency: Semi-Annually**

Excess emissions and CMS downtime were less than 1% and 5% respectively for all systems. See the attached MACT I report for details.

### **Condition MACT.3(A)**

**Equip ID 5300**

**Reporting Frequency: Semi-Annually**

Excess emissions and CMS downtime were less than 1% and 5% respectively for all systems. See the attached MACT I report for details.

### **Condition MACT.5(A2)**

**Equip IDs 2505, 2723, & 5105**

**Reporting Frequency: Quarterly**

The record of exceedances is provided in the attached MACT II report.

### **Condition MACT.5(C)**

**Equip IDs 2510 & 5110**

**Reporting Frequency: Quarterly**

The record of exceedances is provided in the attached MACT II report.

### **Condition MACT.6**

**Equip IDs 2010 & 4610**

**Reporting Frequency: Semi-Annually**

See the attached POWC MACT report.

Permit Conditions: 5C.08.1(B), 5C.08.2(B), 5C.08.6, and 5C.08.7

This report is for incidents of excess opacity (reported in % opacity), opacity monitor downtime or repair, or permit condition exceptions.

Incident No.	Date	Start Time (am or pm)	% Opacity or ppm	Monitor (Check One)				EP Bypass Time	Nature and Cause of Incident	Corrective Action
				OPA	TRS	O2	Duration (Minutes)			
1	4/4/18	9:30 PM	-	x			20		Purge fail alarm	Changed filters
2	4/21/18	3:50 PM	-	x			176	176	Fire in hopper	Bypass EP, remove bark
1	5/1/18	9:17 AM	-	x			39		Monitor showing high dust comp	Cleaned lens, check alignment, ran sets
1	6/6/18	4:19 PM	-	x			41	41	Fire in hopper	Bypass EP, remove bark
2	6/26/18	7:34 AM	-	x			362	362	Working on bark bin	Removed bark from boiler, bypass ep

Based on data provided, reasonable inquiry, and the best of my abilities, I certify that the information contained in this report is accurate and complete.

Name/Title: David Clemmons Interim General Manager

Signature: \_\_\_\_\_

# CONTINUOUS EMISSION MONITOR SEMI-ANNUAL REPORT LOG

SIP

Combination Boiler No. 1

Report Period 1/1/2018 to 6/30/2018

Permit Conditions: 5C.08.1(B), 5C.08.2(B), 5C.08.6, and 5C.08.7

This report is for incidents of excess opacity (reported in % opacity), opacity monitor downtime or repair, or permit condition exceptions.

Incident No.	Date	Start Time (am or pm)	% Opacity or ppm	Monitor (Check One)				EP Bypass Time	Nature and Cause of Incident	Corrective Action
				OPA	TRS	O2	Duration (Minutes)			
1	1/1/18	8:45 AM	-	x			270		Excessive dust drift alarm	Ran cal on optical head on stack with lens cal kit
2	1/5/18	10:36 AM	51	x			6		Powerhouse upset, RB2 tripped	Return RB2, stabilize PH ops
3	1/5/18	10:54 AM	80	x			12		Powerhouse upset, RB2 tripped	Return RB2, stabilize PH ops
4	1/9/18	2:48 AM	-	x			162	162	Fire in hopper	Bypassed EP, pulled bark
5	1/13/18	2:40 PM	-	x			34	34	Fire in hopper	Bypassed EP, pulled bark, washed hopper
6	1/18/18	12:18 PM	-	x			6		Data lost	System returned to normal
7	1/19/18	4:36 AM	80	x			18		Upset from entire mill power outage	Stabilize operations
8	1/19/18	5:00 AM	66	x			6		Upset from entire mill power outage	Stabilize operations
9	1/27/18	2:00 AM	-	x			54	54	Fire in hopper	Bypassed EP, pulled bark
1	2/18/18	1:24 AM	65	x			6		Unknown spike	Unknown, trend data shows no high opacity
1	3/17/18	7:30 AM	-	x			45		Quarterly service	Cleaned lens, check alignment
2	3/24/18	7:43 AM	-	x			62	62	Fire in hopper	Bypass EP, remove bark
1	4/4/18	9:30 PM	-	x			20		Purge fail alarm	Changed filters
2	4/21/18	3:50 PM	-	x			176	176	Fire in hopper	Bypass EP, remove bark
1	5/1/18	9:17 AM	-	x			39		Monitor showing high dust comp	Cleaned lens, check alignment, ran sets
1	6/6/18	4:19 PM	-	x			41	41	Fire in hopper	Bypass EP, remove bark
2	6/26/18	7:34 AM	-	x			362	362	Working on bark bin	Removed bark from boiler, bypass ep

Based on data provided, reasonable inquiry, and the best of my abilities, I certify that the information contained in this report is accurate and complete.

Name/Title: David Clemmons Interim General Manager

Signature: \_\_\_\_\_

Permit Conditions: 5C.08.1(B), 5C.08.2(B), 5C.08.6, and 5C.08.7

This report is for incidents of excess opacity (reported in % opacity), opacity monitor downtime or repair, or permit condition exceptions.

Incident No.	Date	Start Time (am or pm)	% Opacity or ppm	Monitor (Check One)				EP Bypass Time	Nature and Cause of Incident	Corrective Action
				OPA	TRS	O2	Duration (Min)			
1	4/7/18	11:30 AM	63	x			6		Higher damper setting	Closed back on damper
2	4/7/18	5:42 PM	53	x			6		Wet bark	Cut back on air and bark
3	4/8/18	2:42 PM	41	x			6		Wet bark	Cut back on air
4	4/9/18	2:06 AM	43	x			6		Wet bark	Cut back on air
5	4/11/18	11:30 AM	71	x			6		Lighting off oil guns	Increased air
6	4/17/18	12:18 PM	44	x			6		Wet bark	Increased air, cut bark
7	4/17/18	5:54 PM	41	x			6		Wet bark	Increased air, cut bark
8	4/18/18	3:36 PM	42	x			6		Wet bark	Increased air, cut bark
9	4/19/18	4:00 AM	41	x			6		Unknown	Cut bark
10	4/20/18	10:00 PM	46	x			6		Blowing IK's	Stopped blowing IK's
11	4/26/18	12:00 PM	44	x			6		Blowing IK's	Stopped blowing IK's
12	4/30/18	1:54 AM	49	x			6		Blowing IK's	Stopped blowing IK's
1	5/2/18	12:24 AM	44	x			6		Blowing IK's	Stopped blowing IK's
2	5/2/18	12:42 AM	42	x			6		Blowing IK's	Stopped blowing IK's
3	5/3/18	5:06 AM	45	x			6		Unknown	No process issues noted at time of high opacity
4	5/12/18	12:54 PM	69	x			6		Starting boiler up from shutdown	Adjusted air, return to stable operation
5	5/14/18	12:00 AM	avg >16	x			1440		Starting boiler up from shutdown	Heavy steam load, cutting bark
6	5/15/18	10:48 AM	65	x			6		Unknown	Unknown
7	5/15/18	2:30 PM	-	x			220	220	Bypassed ESP for clean out	Completed clean out, returned ESP
8	5/15/18	8:00 PM	-	x			30		Dirty lense	Cleaned lense
9	5/17/18	11:54 AM	47	x			6		Unknown	Unknown
10	5/21/18	11:00 AM	41	x			6		Unknown	Unknown
11	5/22/18	2:00 AM	41	x			6		Blowing IK's	Stopped blowing IK's
12	5/29/18	3:48 PM	-	x			6		Heavy rain	Rain diminished
13	5/30/18	9:54 AM	46	x			6		Unknown	Unknown

Permit Conditions: 5C.08.1(B), 5C.08.2(B), 5C.08.6, and 5C.08.7

This report is for incidents of excess opacity (reported in % opacity), opacity monitor downtime or repair, or permit condition exceptions.

Incident No.	Date	Start Time (am or pm)	% Opacity or ppm	Monitor (Check One)				EP Bypass Time	Nature and Cause of Incident	Corrective Action
				OPA	TRS	O2	Duration (Min)			
1	6/2/18	10:48 AM	47	x			6		Wet bark	Cut back on air
2	6/3/18	3:36 PM	52	x			6		Wet bark	Cut back on bark.
3	6/8/18	4:00 PM	44	x			6		Unknown	Unknown
4	6/11/18	10:18 PM	54	x			6		Wet bark, heavy rain in area	Reduced bark firing
5	6/24/18	7:00 PM	6	x			6		Blowing IK	Stopped blowing IK
6	6/28/18	3:24 AM	42	x			6		Blowing IK	Stopped blowing IK
7	6/30/18	1:30 AM	59	x			6		Bark piling on west side	Decreased air and gas

Based on data provided, reasonable inquiry, and the best of my abilities, I certify that the information contained in this report is accurate and complete.

Name/Title: David Clemmons Interim General Manager

Signature: \_\_\_\_\_

Permit Conditions: 5C.08.1(B), 5C.08.2(B), 5C.08.6, and 5C.08.7

This report is for incidents of excess opacity (reported in % opacity), opacity monitor downtime or repair, or permit condition exceptions.

Incident No.	Date	Start Time (am or pm)	% Opacity or ppm	Monitor (Check One)				EP Bypass Time	Nature and Cause of Incident	Corrective Action
				OPA	TRS	O2	Duration (Min)			
1	1/5/18	11:12 AM	-	x			176	176	Boiler tripped out and subsequent fire in hopper	Remove bark, bypass EP, wash hopper, startup boiler
2	1/12/18	5:20 AM	-	x			76		Failed Calibration	Excessive dirt, changed filter and ran calibration
3	1/12/18	3:42 PM	45	x			6		EP tripped	Reset EP
4	1/12/18	4:54 PM	43	x			6		Unknown	Unknown
5	1/12/18	5:48 PM	70	x			6		Unknown	Unknown
6	1/12/18	8:12 PM	54	x			6		Unknown	Unknown
7	1/13/18	6:49 AM	-	x			54	54	Fire in hopper	Bypass EP, remove bark
8	1/13/18	1:47 PM	-	x			59	59	Fire in hopper	Bypass EP, remove bark
9	1/13/18	3:06 PM	80	x			6		Unknown	Unknown
10	1/14/18	9:26 PM	-	x			1234	1234	EP drag chain down	Bypass EP, remove bark
11	1/16/18	9:00 AM	-	x			523	523	EP drag chain down	Bypass EP, remove bark, install new conveyor chain
12	1/16/18	10:06 PM	44	x			6		Unknown	Unknown
13	1/19/18	2:24 AM	75	x			6		Unknown	Unknown
14	1/21/18	9:57 PM	-	x			36	36	Fire in hopper	Bypass EP, remove bark
15	1/22/18	8:30 PM	45	x			6		Fields tripped	Reset EP
16	1/23/18	11:42 AM	58	x			6		Unknown	Unknown
17	1/27/18	5:12 AM	-	x			104		Monitor failed calibration (zero high),	Cleaned and cal.
18	1/27/18	11:48 PM	80	x			6		EP tripped	Reset EP
19	1/29/18	10:00 PM	-	x			64	64	Fire in hopper	Bypass EP, remove bark, wash hopper
20	1/31/18	6:06 AM	55	x			6		Unknown	Unknown
1	2/1/18	2:30 AM	50	x			6		Unknown	Unknown
2	2/2/18	10:48 PM	51	x			6		Unknown	Unknown
3	2/3/18	6:00 AM	-	x			150	150	Fire in hopper	Bypass EP, remove bark, wash hopper, found bad electrical wire on fire warning system, Repaired wire
4	2/10/18	7:30 AM	-	x			615		Monitor in alarm, Upscale value failed	Found cal lens loose, Secure lens and run calibration
5	2/10/18	11:06 PM	-	x			6		Lost data	Unknown
6	2/13/18	10:12 PM	41	x			6		Blowing IK's	Stopped blowing IK's
7	2/14/18	4:12 PM	80	x			6		High mill load	Cut bark load
8	2/19/18	1:41 PM	-	x			64	64	Fire in hopper	Bypass EP, remove bark, wash hopper
9	2/21/18	3:24 PM	44	x			6		Fields tripped	Reset EP
1	3/8/18	7:42 PM	57	x			12		High bark load	Cut bark load, increased air
2	3/17/18	7:00 AM	-	x			77		Quarterly maintenance	Cleaned and cal.
3	3/20/18	11:30 PM	54	x			6		Unknown	Unknown
4	3/25/18	12:42 AM	50	x			6		Blowing IK's	Stopped blowing IK's
5	3/26/18	6:42 AM	43	x			6		Wet bark	Cut back on air and bark
6	3/30/18	12:18 PM	61	x			6		Blowing IK's	Stopped blowing IK's

Permit Conditions: 5C.08.1(B), 5C.08.2(B), 5C.08.6, and 5C.08.7

This report is for incidents of excess opacity (reported in % opacity), opacity monitor downtime or repair, or permit condition exceptions.

Incident No.	Date	Start Time (am or pm)	% Opacity or ppm	Monitor (Check One)				EP Bypass Time	Nature and Cause of Incident	Corrective Action
				OPA	TRS	O2	Duration (Min)			
1	4/7/18	11:30 AM	63	x			6		Higher damper setting	Closed back on damper
2	4/7/18	5:42 PM	53	x			6		Wet bark	Cut back on air and bark
3	4/8/18	2:42 PM	41	x			6		Wet bark	Cut back on air
4	4/9/18	2:06 AM	43	x			6		Wet bark	Cut back on air
5	4/11/18	11:30 AM	71	x			6		Lighting off oil guns	Increased air
6	4/17/18	12:18 PM	44	x			6		Wet bark	Increased air, cut bark
7	4/17/18	5:54 PM	41	x			6		Wet bark	Increased air, cut bark
8	4/18/18	3:36 PM	42	x			6		Wet bark	Increased air, cut bark
9	4/19/18	4:00 AM	41	x			6		Unknown	Cut bark
10	4/20/18	10:00 PM	46	x			6		Blowing IK's	Stopped blowing IK's
11	4/26/18	12:00 PM	44	x			6		Blowing IK's	Stopped blowing IK's
12	4/30/18	1:54 AM	49	x			6		Blowing IK's	Stopped blowing IK's
1	5/2/18	12:24 AM	44	x			6		Blowing IK's	Stopped blowing IK's
2	5/2/18	12:42 AM	42	x			6		Blowing IK's	Stopped blowing IK's
3	5/3/18	5:06 AM	45	x			6		Unknown	No process issues noted at time of high opacity
4	5/12/18	12:54 PM	69	x			6		Starting boiler up from shutdown	Adjusted air, return to stable operation
5	5/14/18	12:00 AM	avg >16	x			1440		Starting boiler up from shutdown	Heavy steam load, cutting bark
6	5/15/18	10:48 AM	65	x			6		Unknown	Unknown
7	5/15/18	2:30 PM	-	x			220	220	Bypassed ESP for clean out	Completed clean out, returned ESP
8	5/15/18	8:00 PM	-	x			30		Dirty lense	Cleaned lense
9	5/17/18	11:54 AM	47	x			6		Unknown	Unknown
10	5/21/18	11:00 AM	41	x			6		Unknown	Unknown
11	5/22/18	2:00 AM	41	x			6		Blowing IK's	Stopped blowing IK's
12	5/29/18	3:48 PM	-	x			6		Heavy rain	Rain diminished
13	5/30/18	9:54 AM	46	x			6		Unknown	Unknown
1	6/2/18	10:48 AM	47	x			6		Wet bark	Cut back on air
2	6/3/18	3:36 PM	52	x			6		Wet bark	Cut back on bark.
3	6/8/18	4:00 PM	44	x			6		Unknown	Unknown
4	6/11/18	10:18 PM	54	x			6		Wet bark, heavy rain in area	Reduced bark firing
5	6/24/18	7:00 PM	6	x			6		Blowing IK	Stopped blowing IK
6	6/28/18	3:24 AM	42	x			6		Blowing IK	Stopped blowing IK
7	6/30/18	1:30 AM	59	x			6		Bark piling on west side	Decreased air and gas

Based on data provided, reasonable inquiry, and the best of my abilities, I certify that the information contained in this report is accurate and complete.

Name/Title: David Clemmons Interim General Manager

Signature: \_\_\_\_\_

Permit Conditions 5.C.07.2(A), 5.C.14, & MACT .5(A2)

This report is for incidents of excess opacity (reported in % opacity), opacity monitor downtime or repair, or permit condition exceptions.

Incident No.	Date	Start Time (am or pm)	% Opacity or ppm	Monitor (Check One)				Duration (Minutes)	Nature and Cause of Incident	Corrective Action
				OPA	TRS	O2				
1	1/2/2018	1:20 PM	-	x				16	Monitor out of alignment	Re aligned optical head
2	1/2/2018	10:00 PM	-	x				15	Monitor out of alignment	Re aligned optical head
3	1/8/2018	4:24 PM	-	x				46	Monitor out of alignment	Re aligned optical head
4	1/9/2018	2:18 PM	-	x				67	Monitor out of alignment	Re aligned optical head
5	1/14/2018	2:45 AM	-	x				15	Monitor out of alignment	Re aligned optical head
6	1/14/2018	1:14 PM	-	x				16	Monitor out of alignment	Re aligned optical head
7	1/14/2018	7:00 PM	-	x				48	Monitor out of alignment	Re aligned optical head
8	1/15/2018	2:12 PM	-	x				42	Monitor out of alignment	Re aligned optical head
9	1/17/2018	4:18 PM	80	x				24	Entire mill lost power	Shut down RB
1	2/7/2018	12:36 PM	80	x				18	High opacity, heavy rain in area, no process issue noted	Opacity returned to "normal" value without intervention from operator
2	2/12/2018	10:02 PM	-	x				106	Monitor out of alignment	Re aligned optical head
3	2/13/2018	4:46 AM	-	x				43	Monitor out of alignment	Re aligned optical head
4	2/17/2018	8:00 AM	-	x				15	Monitor out of alignment	Re aligned optical head
5	2/17/2018	4:24 PM	-	x				31	Monitor out of alignment	Re aligned optical head
6	2/18/2018	3:00 PM	-	x				25	Monitor out of alignment	Re aligned optical head
7	2/19/2018	5:35 PM	-	x				10	Monitor out of alignment	Re aligned optical head
8	2/24/2018	8:06 PM	-	x				12	Monitor out of alignment	Re aligned optical head
9	2/27/2018	8:00 AM	-	x				30	Monitor out of alignment	Re aligned optical head
10	2/27/2018	10:48 AM	-	x				27	Monitor out of alignment	Re aligned optical head
1	3/11/2018	10:36 AM	avg>20%	x				78	Northside EP tripping out	Isolated northside, tuning control card
2	3/11/2018	10:42 AM	71	x				54	Northside EP tripping out	Isolated northside, tuning control card
3	3/11/2018	11:42 AM	42	x				12	Northside EP tripping out	Isolated northside, tuning control card
4	3/11/2018	1:30 PM	48	x				6	Northside EP tripping out	Isolated northside, tuning control card
5	3/12/2018	5:45 AM	-	x				15	Monitor out of alignment	Re aligned optical head
6	3/12/2018	8:12 AM	40	x				6	Northside EP tripping out	Tuning EP field control
7	3/12/2018	4:45 PM	-	x				10	Monitor out of alignment	Re aligned optical head
8	3/16/2018	1:36 PM	-	x				48	Quarterly maintenance	Cleaned lens, ck alignment, cleaned filter, ran calibration set
There were no excursion events or downtime during the month of April 2018.										
1	5/16/2018	9:48 AM	58	x				6	Inlet field tripped, found possible ground	Reduced load
2	5/22/2018	2:30 PM	-	x				144	Monitor out of alignment	Aligned monitor and calibrated
3	5/29/2018	2:06 PM	-	x				6	Heavy rain	Rain diminished
1	6/1/2018	8:12 PM	-	x				6	Heavy rain and hail	Storm passed
2	6/28/2018	3:00 PM	avg>20%	x				96	Rotary valve on EP failed	Cut liquor, repaired valve

Name/Title: David Clemmons Interim General Manager

Signature: \_\_\_\_\_

Permit Conditions 5.C.07.3, 5.C.07.12, 5.C.15, & MACT .5(A2)

This report is for incidents of excess opacity (reported in % opacity), opacity monitor downtime or repair, or permit condition exceptions.

Incident No.	Date	Start Time (am or pm)	% Opacity or ppm	Monitor (Check One)				Nature and Cause of Incident	Corrective Action
				OPA	TRS	O2	Duration (Minutes)		
There were no excursion events or downtime during the month of January 2018.									
There were no excursion events or downtime during the month of February 2018.									
1	3/5/18	7:30 AM	46	x			6	TR3 tripped on EP	Pulled liquor, maint. Repaired TR3
2	3/5/18	7:42 AM	37	x			6	TR3 tripped on EP	Pulled liquor, maint. Repaired TR3
3	3/5/18	8:12 AM	37	x			6	TR3 tripped on EP	Pulled liquor, maint. Repaired TR3
4	3/5/18	10:36 AM	38	x			6	TR3 tripped on EP	Pulled liquor, maint. Repaired TR3
5	3/5/18	7:54 AM	Avg>20%	x			78	TR3 tripped on EP	Pulled liquor, maint. Repaired TR3
6	3/8/18	7:30 PM	-	x			20	Monitor mounting bolts loose	Tighten bolts and align monitor
7	3/8/18	10:12 PM	37	x			37	EP field tripped	Reset fields, cut liquor burning
8	3/9/18	2:48 AM	47	x			6	EP field tripped	Reset fields, cut liquor burning, technician working on field control card
9	3/9/18	3:00 AM	36	x			6	EP field tripped	Reset fields, cut liquor burning, technician working on field control card
10	3/9/18	3:12 AM	42	x			6	EP field tripped	Reset fields, cut liquor burning, technician working on field control card
11	3/9/18	3:54 AM	38	x			12	EP field tripped	Reset fields, cut liquor burning, technician working on field control card
12	3/9/18	5:06 AM	45	x			6	EP field tripped	Reset fields, cut liquor burning, technician working on field control card
13	3/9/18	6:36 AM	37	x			12	EP field tripped	Reset fields, cut liquor burning, technician working on field control card
14	3/9/18	7:06 AM	38	x			6	EP field tripped	Reset fields, cut liquor burning, technician working on field control card
15	3/13/18	8:48 AM	56	x			6	EP field tripped	Reset field
16	3/16/18	4:36 PM	-	x			24	Quarterly maintenance	Cleaned lens, check alignment, cleaned filter, ran calibration
17	3/17/18	8:24 AM	41	x			6	Unknown	Unknown
There were no excursion events or downtime during the month of April 2018.									
1	5/5/18	10:48 PM	59	x			12	Shutting down boiler for annual maintenance outage. No liquor in boiler	Shutdown boiler for annual maintenance. Note: There was no liquor in boiler.
2	5/15/18	5:35 AM	-	x			115	Starting up - Monitor failed calibration	Start up and stabilize operations
3	5/31/18	1:00 PM	-	x			114	Monitor out of alignment	Aligned monitor
4	5/31/18	7:12 PM	-	x			132	Monitor out of alignment	Aligned monitor
There were no excursion events or downtime during the month of June 2018.									

Based on data provided, reasonable inquiry, and the best of my abilities, I certify that the information contained in this report is accurate and complete.

Name/Title: David Clemmons Interim General Manager

Signature: \_\_\_\_\_

Permit Condition 5.C.07.14

This report is for indicated excessive TRS (reported in ppm), monitor downtime or repair (including O2 monitor), or permit condition exceptions.

Incident No.	Date	Start Time (am or pm)	% Opacity or ppm	Monitor (Check One)				Nature and Cause of Incident	Corrective Action
				OPA	TRS	O2	Duration (Minutes)		
1	1/5/18	6:00 AM	-		x		120	Data out of range	Communication re-established.
2	1/21/18	1:00 AM	-		x		60	Data out of range	Communication re-established.
3	1/28/18	12:20 PM	-		x		20	Checking monitor	Ran calibration
1	2/8/18	6:30 AM	-		x		60	Failed morning calibration high trs zero drift	Ran manual, initial, and normal cal.
1	3/16/18	11:00 AM	-		x		360	Quarterly maintenance	Rebuilt transfer pump, replaced scrubber beads, rebuilt probe head
1	4/7/18	9:30 AM	-		x		120	Monthly PM	Completed monthly PM
2	4/8/18	8:45 AM	-		x		105	Monthly PM	Completed monthly PM
3	4/8/18	10:55 AM	-		x		20	Monthly PM	Completed monthly PM
4	4/10/18	7:00 AM	-		x		465	High drift on O2 span	Adjusted O2 cell
5	4/23/18	7:30 AM	-		x		240	Replaced cal gas bottle	Ran calibration
1	5/1/18	10:20 AM	-		x		100	Quarterly maintenance	Replaced beads and charcoal, ran calibration
2	5/2/18	6:30 AM	-		x		180	Failed daily cal	Checked for leaks, ran calibration
1	6/14/18	6:30 AM	-		x		155	Failed daily calibration	Checked for leaks, ran calibration
2	6/15/18	6:30 AM	-		x		420	Failed daily calibration	Cleaned eductor, ran calibrations
3	6/19/18	2:30 PM	-		x		210	Quarterly maintenance	Replaced scrubber beads and activated charcoal and probe filters.

Based on data provided, reasonable inquiry, and the best of my abilities, I certify that the information contained in this report is accurate and complete.

Name/Title: David Clemmons Interim General Manager

Signature: \_\_\_\_\_

Permit Condition 5.C.07.15

This report is for indicated excessive TRS (reported in ppm), monitor downtime or repair (including O2 monitor), or permit condition exceptions.

Incident No.	Date	Start Time (am or pm)	% Opacity or ppm	Monitor (Check One)				Nature and Cause of Incident	Corrective Action
				OPA	TRS	O2	Duration (Minutes)		
1	1/2/18	10:00 PM	-		x		60	TRS bottle low	Replaced bottle, ran cal.
2	1/18/18	12:00 AM	-		x		120	Control logic program faulted; monitor working, data collection lost	Trouble shoot issue and reboot data collection software
3	1/19/18	12:00 AM	-		x		1440	Control logic program faulted; monitor working, data collection lost	Trouble shoot issue and reboot data collection software
4	1/20/18	12:00 AM	-		x		1311	Control logic program faulted; monitor working, data collection lost	Trouble shoot issue and reboot data collection software
5	1/21/18	12:00 AM	-		x		1417	Control logic program faulted; monitor working, data collection lost	Trouble shoot issue and reboot data collection software
6	1/22/18	12:00 AM	-		x		739	Control logic program faulted; monitor working, data collection lost	Trouble shoot issue and reboot data collection software
7	1/23/18	12:00 AM	-		x		1440	Control logic program faulted; monitor working, data collection lost	Trouble shoot issue and reboot data collection software
8	1/24/18	12:00 AM	-		x		1440	Control logic program faulted; monitor working, data collection lost	Trouble shoot issue and reboot data collection software
9	1/25/18	12:00 AM	-		x		1440	Control logic program faulted; monitor working, data collection lost	Trouble shoot issue and reboot data collection software
10	1/26/18	12:00 AM	-		X		780	DAS program not functioning, Monitor ok, lost data	Reboot program
There were no excursion events or downtime during the month of February 2018.									
1	3/16/18	11:43 AM	-		x		362	Quarterly maintenance	Rebuilt transfer pump, replaced scrubber beads, rebuilt probe head
2	3/31/18	7:30 AM	-		x		240	Probe alarm	Adjusted citi cell, changed pressure switch on scrubber stack, adjust watlow heater
1	4/7/18	12:30 PM	-		x		60	Monthly PM	Completed monthly PM
2	4/8/18	12:30 PM	-		x		70	Monthly PM	Completed monthly PM
1	5/1/18	10:20 AM	-		x		130	Quarterly maintenance	Replaced beads and charcoal, ran calibrations
2	5/2/18	6:30 AM	-		x		180	Failed daily cal	Checked system for leak, ran calibration
1	6/14/18	8:00 AM	-		x		65	Replaced cal gas cylinder	Ran manual and intial calibration
2	6/20/18	8:30 AM	-		x		240	Quarterly maintenance	Replaced scrubber beads and activated charcoal and probe filters. Adjusted lamp intensity on 43i.
3	6/21/18	7:30 AM	-		x		170	Failed daily cal TRS span drift	Made adjustments, ran cal.

Based on data provided, reasonable inquiry, and the best of my abilities, I certify that the information contained in this report is accurate and complete.

Name/Title: David Clemmons Interim General Manager

Signature: \_\_\_\_\_

Permit Condition 5.C.07.12(B)

This report is for indicated excessive NOx (reported in ppm), monitor downtime or repair (including O2 monitor), or permit condition exceptions.

Incident No.	Date	Start Time (am or pm)	% Opacity or ppm	Monitor (Check One)				Nature and Cause of Incident	Corrective Action
				OPA	NOx	O2	Duration (Minutes)		
1	1/2/18	10:00 PM	-		x		60	Replaced cal gas bottle for TRS	Ran cal
2	1/18/18	12:00 AM	-		x		120	Control logic program faulted; monitor working, data collection lost	Trouble shoot issue and reboot data collection software
3	1/19/18	12:00 AM	-		x		1440	Control logic program faulted; monitor working, data collection lost	Trouble shoot issue and reboot data collection software
4	1/20/18	12:00 AM	-		x		1311	Control logic program faulted; monitor working, data collection lost	Trouble shoot issue and reboot data collection software
5	1/21/18	12:00 AM	-		x		1417	Control logic program faulted; monitor working, data collection lost	Trouble shoot issue and reboot data collection software
6	1/22/18	12:00 AM	-		x		739	Control logic program faulted; monitor working, data collection lost	Trouble shoot issue and reboot data collection software
7	1/23/18	12:00 AM	-		x		1440	Control logic program faulted; monitor working, data collection lost	Trouble shoot issue and reboot data collection software
8	1/24/18	12:00 AM	-		x		1440	Control logic program faulted; monitor working, data collection lost	Trouble shoot issue and reboot data collection software
9	1/25/18	12:00 AM	-		x		1440	Control logic program faulted; monitor working, data collection lost	Trouble shoot issue and reboot data collection software
10	1/26/18	12:00 AM	-		x		780	DAS program not collecting data, lost data	Reboot program
There were no excursion events or downtime during the month of February 2018.									
1	3/16/18	11:43 AM	-		x		362	Quarterly maintenance	Rebuilt transfer pump, rebuilt probe head
2	3/31/18	7:30 AM	-		x		240	Probe alarm	Adjusted citi cell, changed pressure switch on scrubber stack, adjust watlow heater
1	4/7/18	12:30 PM	-		x		60	Monthly PM	Completed monthly PM
2	4/8/18	12:30 PM	-		x		70	Monthly PM	Completed monthly PM
3	4/23/18	7:30 AM	-		x		240	Replaced cal gas bottle for Nox	Ran cal
1	5/1/18	10:20 AM	-		x		130	Quarterly maintenance	Replaced beads and charcoal, ran calibration
2	5/2/18	6:30 AM	-		x		180	Failed daily calibration	Checked system for leaks, ran calibration
1	6/14/18	8:00 AM	-		x		65	Replaced cal gas bottle	Ran manual and intial calibration

Based on data provided, reasonable inquiry, and the best of my abilities, I certify that the information contained in this report is accurate and complete.

Name/Title: David Clemmons Interim General Manager

Signature: \_\_\_\_\_

Permit Condition 5.C.07.17(A)

This report is for indicated excessive TRS (reported in ppm), monitor downtime or repair (including O2 monitor), or permit condition exceptions.

Incident No.	Date	Start Time (am or pm)	% Opacity or ppm	Monitor (Check One)				Nature and Cause of Incident	Corrective Action
				OPA	TRS	O2	Duration (Minutes)		
1	1/1/18	12:30 PM	-		x		185	O2 span drift low	Changed probe filter, recalibrated citi cell.
2	1/2/18	11:15 AM	-		x		75	O2 span drift low	Cold weather, wrapped probe box with fire cloth, ran normal cal.
3	1/10/18	4:00 PM	-		x		540	O2 reading from monitor to DCS dropping out	Technician investigating issue
4	1/11/18	12:00 AM	-		x		180	O2 dropping out	Investigating issue
5	1/11/18	6:50 AM	-		x		70	O2 span drift low	Adjusted O2, ran initial cal
6	1/12/18	12:00 PM	-		x		690	O2 cell failed	Replaced O2 cell, ran manual and initial calibration
7	1/13/18	10:20 AM	-		x		220	High drift on O2 cell	Calibrated O2 board and ran manual and initial calibration
1	2/21/18	8:30 AM	-		x		120	Monthly maintenance	Replace probe filter, repair eductor holder, changed scrubber beads, ran cal
1	3/15/18	8:00 AM	-		x		300	Quarterly maintenance	Replaced probe filter, changed scrubber beads, citi cell, and charcoal filter, ran cal
1	4/7/18	1:45 PM	-		x		80	Monthly PM	Completed monthly PM
2	4/8/18	2:45 PM	-		x		45	Monthly PM	Completed monthly PM
3	4/16/18	8:00 AM	-		x		120	Failed morning cal O2 span drift high	Changed probe filter, blew out probe, ran normal cal.
4	4/30/18	12:30 PM	-		x		120	Quarterly maintenance	Replaced beads, ran calibration
There were no excursion events or downtime during the month of May 2018.									
1	6/19/18	9:30 AM	-		x		240	Quarterly maintenance	Replaced scrubber beads and activated charcoal and probe filters. Rebuilt ADI sample pump and heated filter educator assembly.
2	6/26/18	12:00 PM	-		x		120	High trs span drift at daily calibration	Calibrate SO2 analyzer, ran calibration

Based on data provided, reasonable inquiry, and the best of my abilities, I certify that the information contained in this report is accurate and complete.

Name/Title: David Clemmons Interim General Manager

Signature: \_\_\_\_\_

[illegible]

Permit Conditions 5.C.07.2(A), 5.C.07.12(B), 5.C.17(A), & MACT .5(A2)

This report is for incidents of excess opacity (reported in % opacity), opacity monitor downtime or repair, or permit condition exceptions.

Incident No.	Date	Start Time (am or pm)	% Opacity or ppm	Monitor (Check One)				Nature and Cause of Incident	Corrective Action
				OPA	TRS	O2	Duration (Minutes)		
1	5/2/18	3:18 PM	-	x			38	Checking monitor	Ran calibration
2	5/13/18	4:30 PM	31	x			31	Fire in kiln, no mud on kiln, starting up from extended shutdown	Stabilize operations
1	6/11/18	1:36 PM	43	x			12	Gas analyzer tripped out EP	Calibrate gas analyzer
2	6/15/18	8:45 AM	-	x			75	Purge fail alarm	Inspected unit, ran calibrations
3	6/20/18	9:30 AM	-	x			90	Purge failure, instrument alert, and instrument failure alarms	Changed purge air flow switch, cleaned unit, realigned, and ran cal.
4	6/24/18	5:42 PM	44	x			6	Unknown	Unknown
5	6/28/18	6:36 PM	37.5	x			12	Gas analyzer tripped out EP	Analyzer overheating, repaired A/C
6	6/28/18	8:48 PM	88	x			6	Gas analyzer tripped out EP	Analyzer overheating, repaired A/C

Based on data provided, reasonable inquiry, and the best of my abilities, I certify that the information contained in this report is accurate and complete.

Name/Title: David Clemmons Interim General Manager

Signature: \_\_\_\_\_

Permit Conditions 5.C.08.1(B), 5.C.08.2(B1), 5.C.08.7, & MACT.1C

This report is for indicated emissions from the fiberline, pulp washing systems, oxygen delignification, and screening/knotting systems exceeding 5 minutes duration, or permit condition exceptions.

Incident No.	Date	Start Time (am or pm)	HVLC System Leg	Duration (Minutes)	Nature and Cause of Incident	Corrective Action
1	1/5/2018	7:15 AM	PH: HVLC	111	RB 2 tripped due to cold weather	Stabilize operations, Stabilize steam header
2	1/9/2018	2:07 PM	PH: HVLC	63	Lost all bark to CB's and RB2 tripped; unable to fire aux burners to keep 150# header high enough	Stablized RB2, returned bark to CB's, returned gases
3	1/13/2018	3:03 PM	PH: HVLC	14	Lost burner in CB #1	Switched gases to CB 2
4	1/18/2018	11:32 PM	FL: HVLC	6	Start up from Mill wide power outage	Stabilize operations
5	1/25/2018	11:44 AM	FL: HVLC	6	Vent valve failure due to condensate and build-up in air line caused multiple vents.	Reset valve, called maintenance to repair valve
6	1/25/2018	12:00 PM	FL: HVLC	8	Vent valve failure due to condensate and build-up in air line caused multiple vents.	Reset valve, called maintenance to repair valve
7	1/25/2018	12:09 PM	FL: HVLC	10	Vent valve failure due to condensate and build-up in air line caused multiple vents.	Reset valve, called maintenance to repair valve
8	1/25/2018	12:41 PM	FL: HVLC	7	Vent valve failure due to condensate and build-up in air line caused multiple vents.	Reset valve, called maintenance to repair valve
9	1/25/2018	12:49 PM	FL: HVLC	13	Vent valve failure due to condensate and build-up in air line caused multiple vents.	Reset valve, called maintenance to repair valve
10	1/25/2018	1:04 PM	FL: HVLC	57	Vent valve failure due to condensate and build-up in air line caused multiple vents.	Reset valve, called maintenance to repair valve
11	1/25/2018	2:02 PM	FL: HVLC	117	Vent valve failure due to condensate and build-up in air line caused multiple vents.	Reset valve, called maintenance to repair valve
12	1/28/2018	11:23 PM	PH: HVLC	6	Boiler no. 1 tripped offline	Stabilize operations, Stabilize steam header
1	2/15/2018	6:55 AM	PH: HVLC	125	No. 2 fan breaker tripped	Repaired and reset breaker
1	3/26/2018	12:48 PM	PH: HVLC	6	Header swing	Stablized pressure, returned gases
1	4/2/2018	8:15 PM	PH: HVLC	22	Faulty temperature probe took interlock out on combination boiler no. 1	Transferred gases to combination boiler no. 2
1	5/17/2018	7:42 AM	PH: HVLC	22	Lost temperature permissive at boiler	Reset permissive on No. 1 CB
1	6/25/2018	11:19 AM	PH: HVLC	22	Water in HVLC line from fiberline	Tripped out system, drain water

Based on data provided, reasonable inquiry, and the best of my abilities, I certify that the information contained in this report is accurate and complete.

Name/Title: David Clemmons Interim General Manager

Signature: \_\_\_\_\_



resolute  
Forest Products  
ID 2605, ID 3705 SIP, NSPS

# CONTINUOUS EMISSION MONITOR SEMI-ANNUAL REPORT LOG

## Low Volume High Concentration Gas System

Report Period 1/1/2018 to 6/30/2018

Permit Conditions 5.C.08.1(B), 5.C.08.2(B1), 5.C.08.7, & MACT.1©

This report is for indicated emissions from the digester and/or multiple effect evaporator systems exceeding 5 minutes duration, or permit condition exceptions.

Incident No.	Date	Start Time (am or pm)	LVHC System Leg	Duration (Minutes)	Nature and Cause of Incident	Corrective Action
1	1/2/2018	1:10 AM	LVHC	40	Instrument freezing, Lost flow transmitter	De-ice instrument
2	1/3/2018	6:30 AM	LVHC	102	RB2 Tripped causing 150 lb header to drop	Stabilize header, return gases
3	1/3/2018	8:20 AM	LVHC	107	RB2 Tripped causing 150 lb header to drop	Stabilize header, return gases
4	1/3/2018	1:56 PM	LVHC	20	Flow transmitter stopped working due to cold temps and tripped all LVHC	Put heater on flow transmitter
5	1/5/2018	1:43 AM	LVHC	425	Intermittent trips of LVHC sources due to extreme cold	Stabilize operations
6	1/5/2018	10:48 AM	LVHC	49	Intermittent trips of LVHC sources due to extreme cold	Stabilize operations
7	1/6/2018	12:38 PM	LVHC	13	Instrument malfunction due to cold weather	Put heater on instrument
8	1/6/2018	7:25 PM	LVHC	35	Instrument malfunction due to cold weather	De-ice instrument
9	1/7/2018	3:11 PM	LVHC	12	Instrument malfunction due to cold weather	Put heater on instrument
10	1/8/2018	10:15 AM	LVHC	16	Steam flow ejectors fell to zero	Reset steam flow
11	1/9/2018	2:06 PM	LVHC	67	Lost all bark to CB's and RB2 tripped; unable to fire aux burners to keep 150# header high enough	Stabilized RB2, returned bark to CB's, returned gases
12	1/9/2018	6:08 PM	LVHC	53	Instrument malfunction	Called maintenance, returned gases
13	1/13/2018	1:07 PM	LVHC	8	Loss of steam to ejector	Reset steam flow
14	1/14/2018	11:06 AM	LVHC	10	Loss of steam to ejector	Reset steam flow
15	1/18/2018	10:32 PM	LVHC	13	Start up from Mill wide power outage	Stabilize operations
16	1/19/2018	2:23 AM	LVHC	87	Start up from Mill wide power outage	Stabilize operations
17	1/19/2018	4:15 AM	LVHC	68	Start up from Mill wide power outage	Stabilize operations
18	1/19/2018	6:01 AM	LVHC - FL	72	Start up from Mill wide power outage	Stabilize operations
19	1/19/2018	11:58 PM	LVHC - FL	8	Start up from Mill wide power outage	Stabilize operations
20	1/22/2018	1:39 PM	LVHC	14	Starting up from shutdown	Stabilize operations
21	1/24/2018	10:11 AM	LVHC	8	Turbine tripped, steam header swung	Stabilize operations
1	2/3/2018	12:48 PM	LVHC	8	Low steam flow	Stabilize operations
2	2/11/2018	2:13 AM	LVHC	13	Turbine tripped, steam header swung	Stabilize operations
There were no excursion events or downtime during the month of March 2018						
1	4/7/2018	8:49 AM	PH: Evaps 1	13	Low header pressure, Vent valve would not close	Increased header pressure, operator manually closed vent valve
1	5/13/2018	12:50 PM	PH: Evaps 3	25	Starting up from shutdown	Stabilize operations
2	5/14/2018	3:15 AM	PH: Evaps 3	46	Starting up from shutdown	Stabilize operations
There were no excursion events or downtime during the month of June 2018						

Based on data provided, reasonable inquiry, and the best of my abilities, I certify that the information contained in this report is accurate and complete.

Name/Title: David Clemmons Interim General Manager

Signature: \_\_\_\_\_

Permit Conditions 5.C.07.2; 07.16(A) & (B); 07.B.MACT.5

This report is for variations outside of surrogate monitoring parameters or permit exception conditions.

Incident No.	Date	Start Time (am or pm)	Parameter	Duration (Minutes)	Nature and Cause of Incident	Corrective Action
			Pump Pressure, Flow, delta P			
1	1/19/18	3:00 PM	Weak Wash flow	521	Low liquor burn in RB's due to process issues in fiberline	Increased liquor burn and weak wash flow
2	1/20/18	12:00 AM	Weak Wash flow	120	Low liquor burn in RB's due to process issues	Increased liquor burn and weak wash flow
3	1/21/18	6:00 PM	Weak Wash flow	337	RB 2 down, RB 3 on 2 liq guns due to process issues in fiberline.	Removed all liquor from boilers
4	1/22/18	12:00 PM	Weak Wash flow	259	Starting up recovery boiler	Institute liquor burning in boiler
1	2/13/18	9:00 AM	Weak Wash flow, Pump pressure	180	Weak wash pump tripped out	Reset pump breaker
1	3/31/18	10:00 PM	Weak Wash flow, Pressure Drop	300	Honeywell output card failed. Data lost	Failed output card on Honeywell. Operators monitored readings in the field while card being replaced.
There were no excursion events or downtime during the month of April 2018.						
There were no excursion events or downtime during the month of May 2018.						
There were no excursion events or downtime during the month of June 2018.						

Name/Title: David Clemmons

Interim General Manager

Signature: \_\_\_\_\_

Permit Conditions 5.C.07.2; 07.16(A) & (B); 07.B.MACT.5

This report is for variations outside of surrogate monitoring parameters or permit exception conditions.

Incident No.	Date	Start Time (am or pm)	Parameter	Duration (Minutes)	Nature and Cause of Incident	Corrective Action
			Pump Pressure, Flow, delta P			
There were no excursion events or downtime during the month of April 2018.						
There were no excursion events or downtime during the month of May 2018.						
There were no excursion events or downtime during the month of June 2018.						

Name/Title: David Clemmons Interim General Manager

Signature: \_\_\_\_\_



CONTINUOUS EMISSION MONITOR SEMI-ANNUAL REPORT LOG

Kraft Process - Bleach Plant Scrubber

Report Period 1/1/2018 to 6/30/2018

Permit Conditions: 5.C.03.1 and MACT .3(A)  
This report is for variations outside of surrogate monitoring parameters or permit condition exceptions.

Incident No.	Date	Start Time (am or pm)	Parameter	MDT?	Duration (Minutes)	Nature and Cause of Incident	Corrective Action
			pH, Flow, delta P				
There were no excursion events or downtime during the month of January 2018							
There were no excursion events or downtime during the month of February 2018							
There were no excursion events or downtime during the month of March 2018							
There were no excursion events or downtime during the month of April 2018							
There were no excursion events or downtime during the month of May 2018							
There were no excursion events or downtime during the month of June 2018							

Based on data provided, reasonable inquiry, and the best of my abilities, I certify that the information contained in this report is accurate and complete.

Name/Title:           David Clemmons                           Interim General Manager

Signature:           \_\_\_\_\_

Permit Condition: 04.1

This report is for variations outside of surrogate monitoring parameters or permit condition exceptions.

Incident No.	Date	Start Time (am or pm)	Parameter	Duration (Minutes)	Nature and Cause of Incident	Corrective Action
			pH, Flow, delta P			
There were no excursions during the month of January 2018						
There were no excursions during the month of February 2018						
There were no excursions during the month of March 2018						
There were no excursions during the month of April 2018						
1	5/14/2018	8:15 am	Delta P	533	Startup from annual shutdown, Meter failed	Unplugged pressure taps
There were no excursions during the month of June 2018						

Based on data provided, reasonable inquiry, and the best of my abilities, I certify that the information contained in this report is accurate and complete.

Name/Title: David Clemmons Interim General Manager

Signature: \_\_\_\_\_